

1      **ABSTRACT OF THE DISCLOSURE**

2      The present invention relates to wireless communication systems,  
3      interrogators and methods of communicating within a wireless  
4      communication system. One aspect of the present invention provides  
5      a wireless communication system including at least one remote  
6      communication device configured to communicate a return link wireless  
7      signal; an interrogator including: a communication station configured to  
8      receive the return link wireless signal and to generate a return link  
9      communication signal corresponding to the return link wireless signal;  
10     communication circuitry coupled with the communication station and  
11     configured to communicate the return link communication signal; and a  
12     housing remotely located with respect to the communication station and  
13     including circuitry configured to receive the return link communication  
14     signal from the communication circuitry and to process the return link  
15     communication signal.

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